INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B7/125

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched} & \mbox{(classification system followed by classification symbols)} \\ \mbox{IPC} & 7 & \mbox{G11B} & \mbox{H01S} \\ \end{array}$

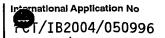
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 405 610 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 2 January 1991 (1991-01-02) page 5, line 33 - page 15, line 23; figures	1-18
X	US 5 444 728 A (THOMPSON ET AL) 22 August 1995 (1995-08-22)	1-3,5-8, 10-14, 16-18
Α	column 6, line 26 - column 7, line 16; figures	3,9,15
X	US 2001/043534 A1 (GYO SEO JIN) 22 November 2001 (2001-11-22) paragraph '0046! - paragraph '0074!; figures	1,3-7, 9-13, 15-18
*	-/	

	<u>—</u>
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 4 February 2005	Date of mailing of the international search report $14/02/2005$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Geoghegan, C



	Ition) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
K	US 4 509 156 A (OHARA ET AL) 2 April 1985 (1985-04-02) column 2, line 52 - line 64 column 3, line 29 - column 6, line 2; figures	1,3-7, 9-13, 15-18	
,			

Information on patent family members

International Application No F/IB2004/050996

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0405610	A	02-01-1991	JP JP JP CA DE DE EP EP KR US	2658404 B2 3035425 A 2707774 B2 3185628 A 2020243 A1 69028737 D1 69028737 T2 69032775 D1 69032775 T2 0405610 A2 0669611 A1 9401997 B1 5109373 A 5150351 A	30-09-1997 15-02-1991 04-02-1998 13-08-1991 31-12-1990 07-11-1996 22-05-1997 24-12-1998 22-07-1999 02-01-1991 30-08-1995 12-03-1994 28-04-1992 22-09-1992
US 5444728	Α	22-08-1995	NONE		
US 2001043534	A1	22-11-2001	KR CN TW US US	2001077597 A 1307333 A 488119 B 2004196772 A1 2004196773 A1	20-08-2001 08-08-2001 21-05-2002 07-10-2004 07-10-2004
US 4509156	Α.	02-04-1985	JP JP JP DE EP	1637359 C 3004970 B 58094143 A 3272770 D1 0082357 A1	31-01-1992 24-01-1991 04-06-1983 25-09-1986 29-06-1983